

### Abstract of the Disclosure

3 A flexible inflatable hinge includes curable resin for  
4 rigidly positioning panels of solar cells about the hinge in  
5 which wrap around contacts and flex circuits are disposed for  
6 routing power from the solar cells to the power bus further  
7 used for grounding the hinge. An indium tin oxide and magnesium  
8 fluoride coating is used to prevent static discharge while  
9 being transparent to ultraviolet light that cures the embedded  
10 resin after deployment for rigidizing the inflatable hinge.

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